



# 2SC5198 2SA1941

## 用途

- 音频产品
  - ◆ 家用放大器
  - ◆ 家庭接收器
  - ◆ 汽车音频放大器

## APPLICATIONS

- Audio Products
  - ◆ Home Amplifiers
  - ◆ Home Receivers
  - ◆ Auto Audio Amplifiers

## 产品特性

- 高集电极电压:  $V_{CEO}=140V$  (min)
- NPN-PNP 互补
- 大电流输入输出能力:  $I_c=15A$
- 优秀的线性增益
- 宽安全工作区
- 环保 (RoHS) 产品

## FEATURES

- High collector voltage:  $V_{CEO}=140V$  (min)
- Complementary NPN-PNP
- High current capability:  $I_c=15A$
- Excellent gain linearity
- Exceptional Safe Operating Area
- RoHS Devices

## 封装 Package

符号	尺寸 (mm)
A	4.35-4.75
B	1.80-2.20
b	0.80-1.20
c	0.50-0.70
E	15.30-15.70
e	5.25-5.65
F	1.40-1.60
H	15.3-15.7
H1	4.30-4.70
L	20.00-21.00
P	3.10-3.60
Q	2.60-3.00

**TO-3PT**

1. 基极 BASE
2. 集电极 (热沉) COLLECTOR (HEAT SINK)
3. 发射极 EMITTER

## 订货信息 ORDER MESSAGE

订货型号 Order codes		印 记 Marking	封 装 Package
有卤-条管 Halogen-Tube	有卤-盒装 Halogen-Reel		
2SC5198-G1-B	N/A	2SC5198	TO-3PT
2SA1941-G1-B	N/A	2SA1941	TO-3PT





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绝对最大额定值 **ABSOLUTE RATINGS** ( $T_c=25^\circ\text{C}$  unless otherwise noted)

项 目 Parameter	符 号 Symbol	数 值 Value	单 位 Unit
集电极—基极直流电压 Collector- Base Voltage	$V_{CB0}$	140	V
集电极—发射极直流电压 Collector- Emitter Voltage	$V_{CEO}$	140	V
发射极—基极直流电压 Emitter-Base Voltage	$V_{EBO}$	5	V
最大集电极电流 Collector Current	$I_C$	15	A
最大基极电流 Base Current	$I_B$	1.5	A
耗散功率 Total Power Dissipation( $T_c=25^\circ\text{C}$ )	$P_D$	130	W
最高结温 Junction Temperature	$T_j$	150	$^\circ\text{C}$
贮存温度 Storage Temperature	$T_{stg}$	-55~150	$^\circ\text{C}$

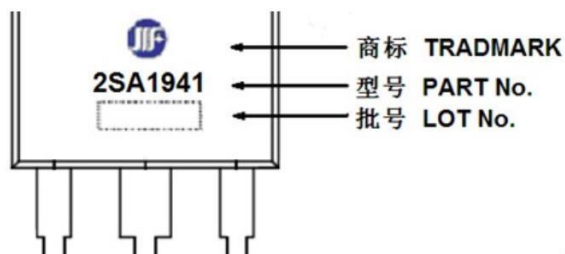
## 电特性 **ELECTRICAL CHARACTERISTIC**

项 目 Parameter	测试条件 Tests conditions	最小值 Value(min)	典型值 Value(typ)	最大值 Value(max)	单 位 Unit
$I_{CBO}$	$V_{CB}=140\text{V}, I_E=0$	-	-	5.0	$\mu\text{A}$
$I_{EBO}$	$V_{EB}=5\text{V}, I_C=0$	-	-	5.0	mA
$V_{(BR)CEO}$	$I_C=50\text{mA}, I_B=0$	140	-	-	V
hFE	$V_{CE}=5\text{V}, I_C=1.0\text{A}$	80	-	160	-
	$V_{CE}=5\text{V}, I_C=5.0\text{A}$	35	-	-	-
$V_{CE(sat)}$	$I_C=7.0\text{A}, I_B=0.7\text{A}$	-	-	2.0	V
$V_{BE(ON)}$	$V_{CE}=5\text{V}, I_C=5.0\text{A}$	-	-	1.5	V
$f_T$	$V_{CE}=5\text{V}, I_C=1.0\text{A}$	-	30	-	MHz
$C_{ob}$	$V_{CE}=10\text{V},$ $I_E=0, f=1\text{MHz}$	-	170	-	pF
	2SC5198	-	320	-	
	2SA1941	-	-	-	

## 热特性 **THERMAL CHARACTERISTIC**

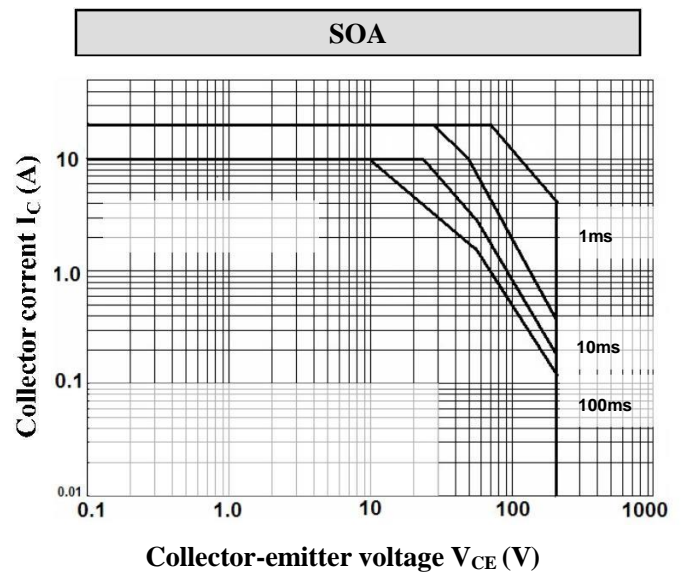
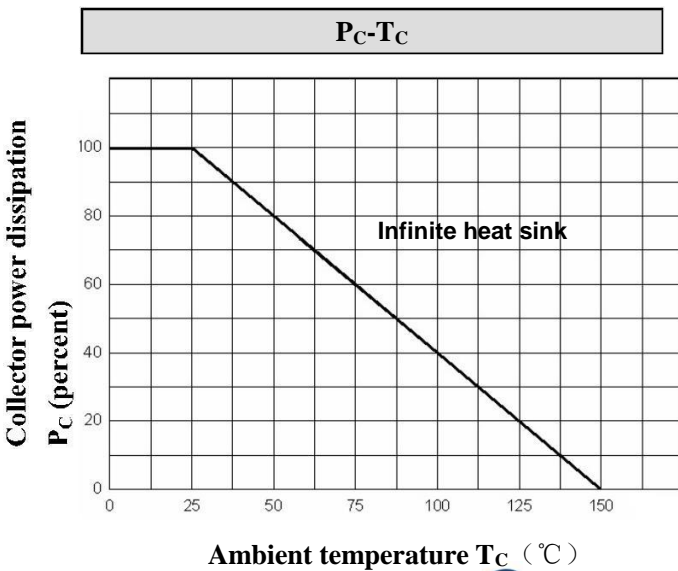
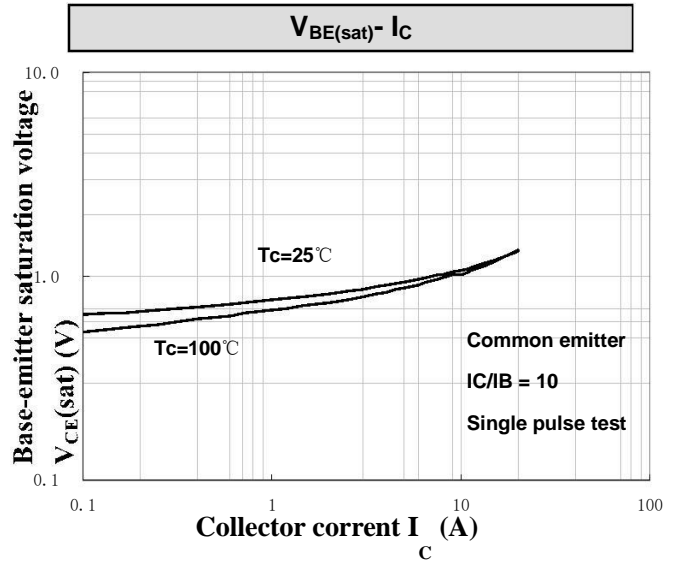
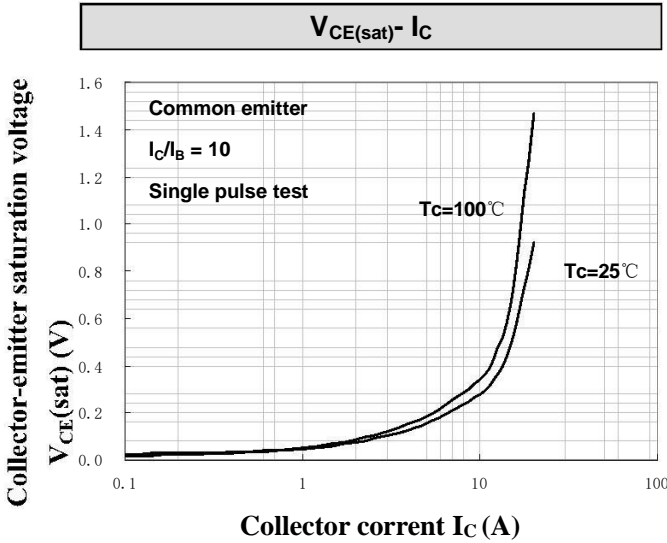
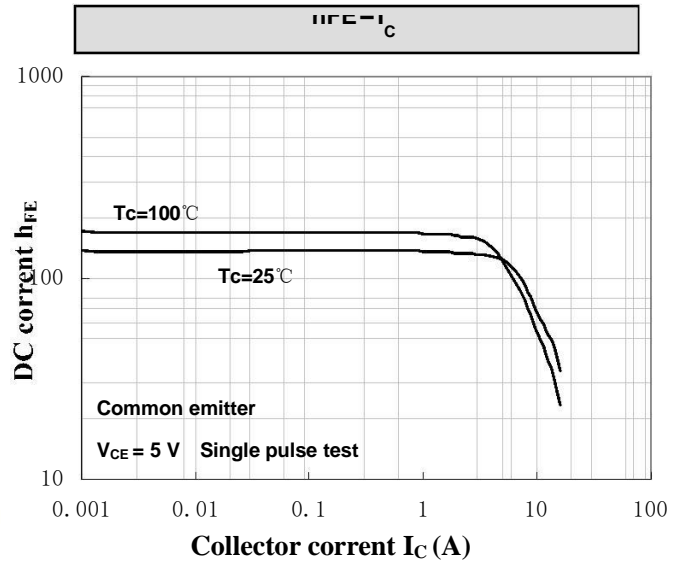
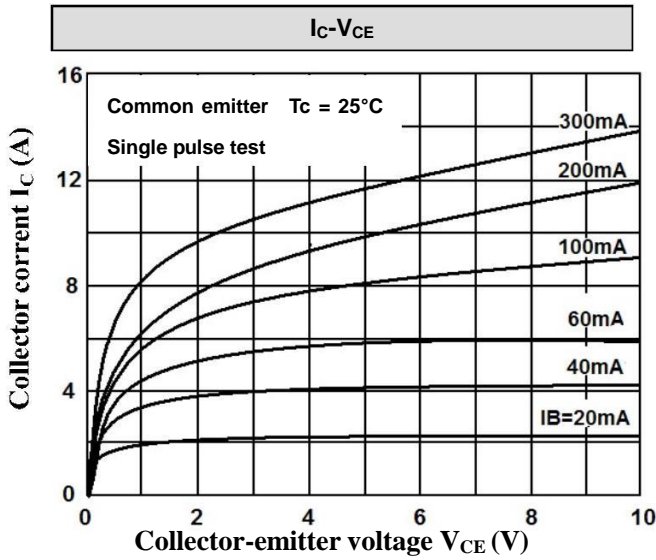
项 目 Parameter	符 号 Symbo	最小值 min	最大值 max	单 位 Unit
结到管壳的热阻 Thermal Resistance Junction Case	$R_{th(j-c)}$	-	0.962	$^\circ\text{C/W}$

## 印记说明 **MARKING**



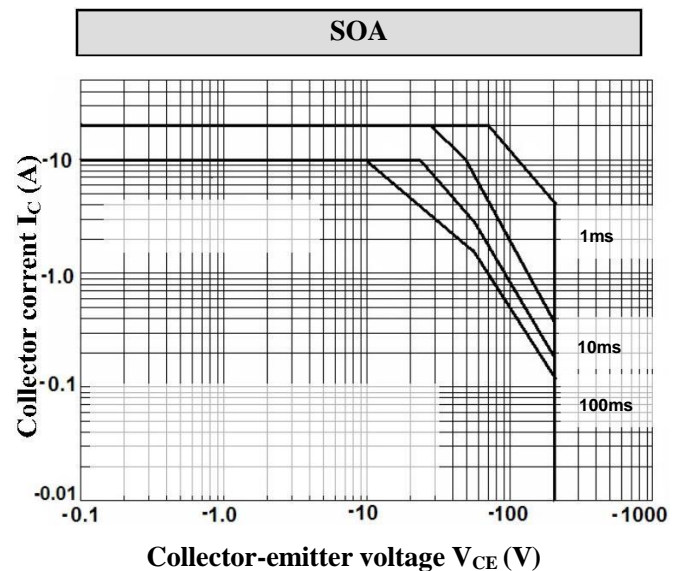
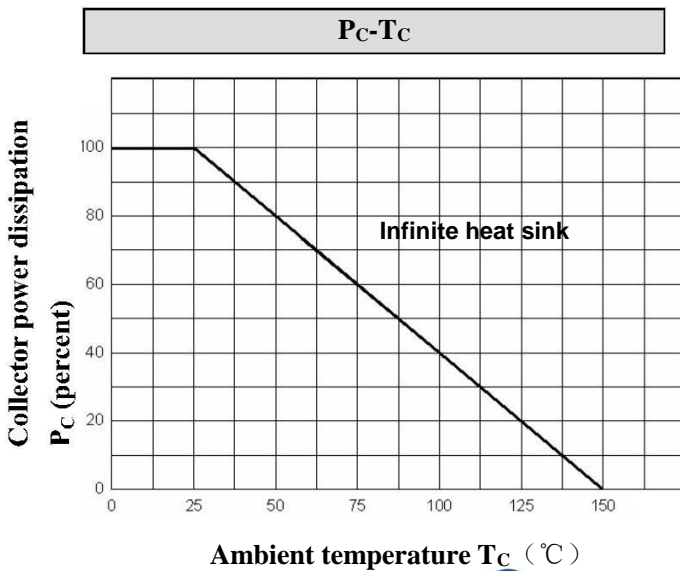
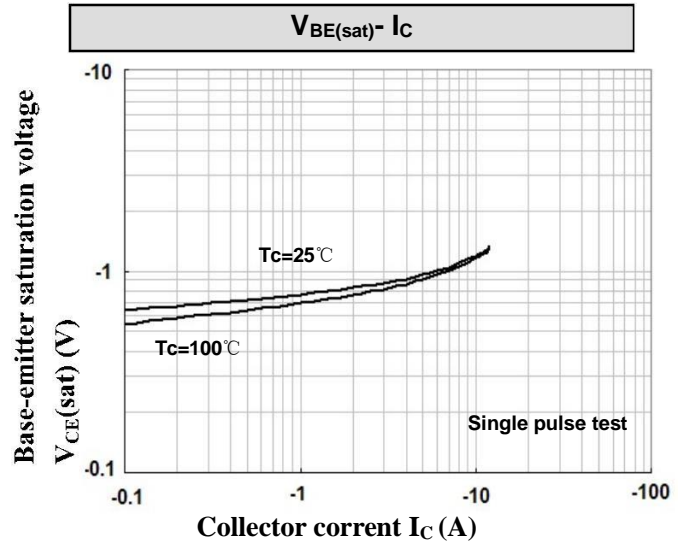
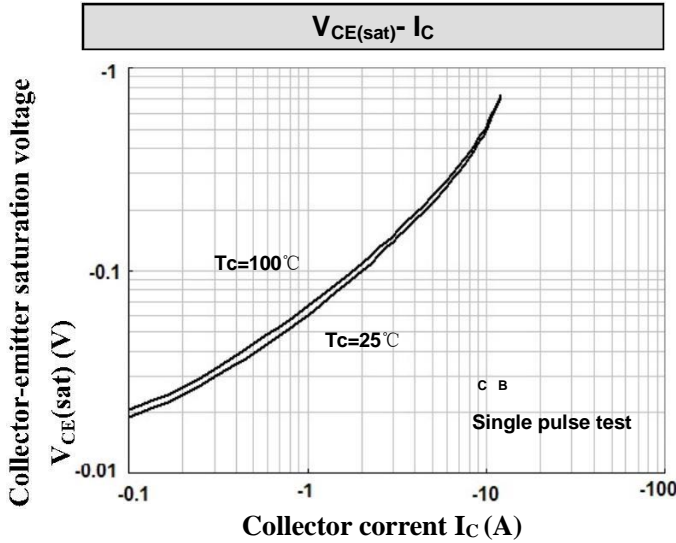
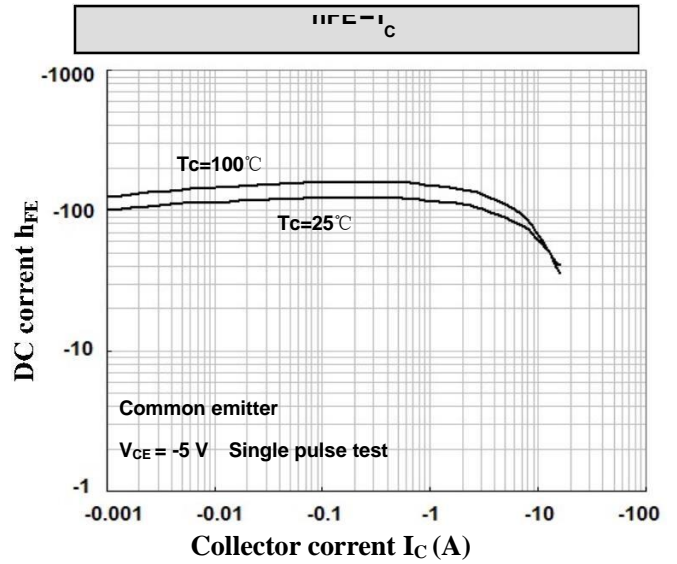
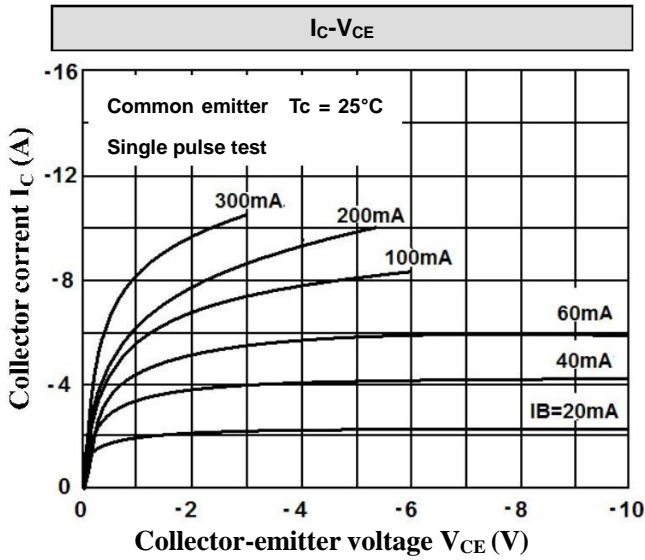


特征曲线 ELECTRICAL CHARACTERISTICS (curves)—2SC5198





特征曲线 ELECTRICAL CHARACTERISTICS (curves)—2SA1941





### 注意事项

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3. 在电路设计时请不要超过器件的绝对最大额定值，否则会影响整机的可靠性。
4. 本说明书如有版本变更不另外告知。

### NOTE

1. Jilin Sino-microelectronics co., Ltd sales its product either through direct sales or sales agent , thus, for customers, when ordering , please check with our company.
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3. Please do not exceed the absolute maximum ratings of the device when circuit designing.
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